

IFN α 1a/Ifa/Ifa8, Mouse, Recombinant

Cat. No. : PCK310

General Information

Synonyms	Ifa;Ifa8
Species	Mouse
Expression host	E.coli
Sequence	CDLPQTHNLRNKRALTLLVQMRRLSPLSCLKDRKDFGFPQEKVDAQI KKAQAIPVLSELTQQI LNIFTSKDSSAAWNTTLLDSFCNDLHQQLNDLQGCLMQVGVQEFPLTQEDALLAVRKYFHRI TVYLREKKHSPCAWEVVRAEVWRALSSSANVLGRLREEK with polyhistidine tag at the N-terminus.
Accession	P01572.2
Tag	His-tag at the N-terminus
Mol mass	19.93 kDa
Expiration date	12 months
Bio activity	Measure by its ability to protect L929 cells infected with encephalomyocarditis (EMC) virus. The ED50 for this effect is < 10 pg/mL. The specific activity of recombinant mouse IFN alpha 1a is > 4 × 10 ⁷ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μ m filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μ g/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interferon alpha-1 or interferon alpha-D, encoded by the human IFNA1 gene, is a member of the type I interferon family. It is expressed in peripheral blood leukocytes and lymphoblastoid cells. There are four highly conserved cysteine residues which form two disulfide bonds. One bond is a necessity for biological activity, which plays a critical role in conducting non-specific resistance against a variety of viral infections, and regulation of cell proliferation and modulates immune responses.

SDS-PAGE

